LONG EATON

URBAN DISTRICT COUNCIL.



ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH,

ON

THE SANITARY CONDITION AND VITAL STATISTICS

FOR THE YEAR 1905.

BY

ANTONY B. CHAMBERS, M.D., M.C.H., Lond.

MEDICAL OFFICER OF HEALTH.

JANUARY 3rd, 1906.

LONG EATON:

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TO THE CHARMAN AND MEMBERS

() F. —

THE LONG EATON URBAN DISTRICT COUNCIL.

(•••) - —

GENTLEMEN,

I have much pleasure in presenting you my Nineteenth Annual Report for the year ended 1905.

Before doing so, however, I should like to point out that it has often occurred to me that the Council may think that the Report often contains a number of small details that the Council are already aware of, and, therefore, appear to be unnecessary. But, as the Local Government Board and the County Council have also to be provided with a copy of the Report, these details are essential. The Local Government Board expect a record to be kept of all the matters that affect the sanitary condition of the district during the year, its progress and growth, and the sanitary requirements that are adopted to meet this increase.

CONTENTS OF REPORT.

The Report should be chiefly concerned with the conditions affecting the health in the district, and with the means for improving these conditions. It should contain an account of any improvement or deterioration of these conditions. To report on any influences affecting, or threatening to affect, injuriously the public health, and on the action which has been taken, or which may still be needed to combat these influences.

As subjects concerning which the Annual Report should give information, the following deserve to be especially mentioned:

- 1.--Physical features and general character of the district.
- 2. Chief occupations of the inhabitants and the influence of any particular occupation on public health.
- 3. House accommodation—especially for the working classes, its adequacy and fitness; sufficiency of open space about house; cleanliness; supervision over erection of new houses.
- 4.—Sewerage and drainage: its sufficiency in all parts of the district; condition of sewers and house drains; method of disposal of sewage.
- 5.—Excremental disposal: system adopted: defects, if any.
- 6.—Removal and disposal of house refuse, frequency and method.
- 7.— Water supply of the district, source, nature, sufficiency, wholesomeness and freedom from risk of pollution.
- 8. -Places over which the Council have supervision, e.g., lodging-houses, slaughter-houses, drains, cow-sheds, milk-shops, bakehouses, factories, work-shops, and offensive trades.
- 9.—Bye-laws enforcement, amendments, or further bye-laws.
- 10.- Nuisances: proceedings for their abatement.
- 11. Methods of dealing with infections diseases: notification: isolation hospital and its accommodation: disinfection.

With regard to all these points it should be borne in mind that these reports are for the information of the Local Government Board as well as for the Council of the District, and that a statement of the local circumstances and local sanitary conditions which may seem superfluous for the latter may be needed by the former.

- 12.—Section 132 of the Factory and Workshops Act, 1901, requires that the Medical Officer of Health shall, in his Annual Report, report on the Administration of this Act in Workshops and Work-places in his District.
- 13. The Report to deal with the extent, distribution, and causes of Epidemic and Notifiable Diseases, stating the results of enquiries made into their origin and propagation and the steps taken with a view to check their spread.

Although the District increases rapidly year by year, still the vital statistics remain unaltered, and indicate a high standard of health, in spite of increase and density of population with all its risks and influences on public health. The General Death-rate for the year is 11.4. It has remained stationary for several years; the average for the last ten years is 11.5. The Infantile Mortality rate this year is also much below the average—it is 123 against 197 in 1904, and 142 in 1903. I consider this a most satisfactory improvement. The total number of deaths under 1 year was 55 against 75 in 1904. I hope this improvement will continue, and that another year will bring a further improvement. It shows a more intelligent interest in the care of infants. The number of cases of infectious diseases reported this year is considerably in excess of that for the last ten years, especially Scarlet Fever, Measles, and Diphtheria. The principal cause of spread was school-The Council, at my suggestion, have this year generously afforded the Town the opportunity of liaving antitoxin supplied free in all cases of Diphtheria. A supply is kept at the local chemist shop, so that even the poorest people

Oiphtheria. This has a double advantage. It not only supplies the most potent reme by for the cure of Diphtheria, but it also backs its spread. It is most desirable that there should be a supply always at hand, as the remedy, to be of any use, must be applied early. Since the introduction of antitoxin, the deaths from Diphtheria have been very much reduced. No child suffering from Diphtheria has much chance of recovery who has not been treated by antitoxin. It must, therefore, be a great satisfaction to the District to know that a supply is at hand, and that every child has a fair chance of its life being saved.

Another most satisfactory record for the Town is that there has not been a single case of Enteric Fever reported during the year. The number of cases of Enteric Fever have gradually diminished for the last ten years; last year there was only one, and the year before one.

But this is the first year for the last 20 years that there has been no case of Typhoid Fever reported. It speaks well for our Water supply, of which a most satisfactory analysis has recently been made, and also for the drainage of the District. This is most important, as the Town is growing rapidly and an efficient drainage is most essential to health. Defective drainage, while not directly contributing to disease, lowers the system, undermines the public health, and exposes the population to the risk of catching infections diseases where they might under other circumstances escape. Robust health is necessary to the resistance of disease.

One matter I would draw the Council's attention to, and that is the increase of Smoke Nuisance from the factory chimneys all over the District of recent years. There is always a certain amount of unavoidable smoke, but there is

a large percentage of black smoke given out by the factor chimneys that could be avoided with better care on the part of the factor in. I would a reast that read to produce per the body a hour scalling the database to the abatement of this maisance are set or the free them throwing on damp slack into the hot fire-places, when cannot consume all the carbon, is generally the principal cause. There are now a large number of factories in the District, the maisances rather increases than diminishes.

OTHER SANITARY REQUIREMENTS OF THE DISTRICT.

- 1. -Construction of Filter Beds at Sewage Farm.
- 2.—Refuse Destructor for the large heap of Refuse now at the Sewage Farm.

SUMMARY OF REPORT.

SANITARY DISTRICT.

Are	a in acre	8				2()'111
Rat	eable Va	ilue			17	1.793
Λ_{SS}	essable V	falue .			£3	56.119
Inh.	abited H	louses.	1891			1010
	• •		1902 .			20,50
		• •	1903=			717
		• •	1901			3130
	4 +		1905			3374
New	Holler	- crecte	·(+. 1 ·() 1			(()
٠.			14()?			140)
	4.4	* *	19003			
. ,	4.9		1901			·(i()
	4 *		1905			2.35

VITAL STATISTICS.

Population, census 1891					0626
	• • •				9636
, 1901					
4.00.00					
1001					
,, 1904	* * •				14640
,. 1905			* * *		15300
Number of Persons per house					4.26
Number of Persons per acre					7
Tenements with less rooms that					56
Tenements with less rooms tha					43
Number of Deaths registered		g 1904			171
Death-rate per 1000, 1904					11.6
Number of Deaths registered					175
Death-rate per 1000, 1905					11.4
Zymotic Death-rate, 1904					1:()2
Zymotic Death-rate, 1905					1.4
Infantile Mortality rate per 100	0 Birt	hs. 19	04		197:3
Infantile Mortality rate per 100	0 Birt	hs, 19	05		123
Deaths from Phthisis, 1904					16
Death-rate from Phthisis, 1904					1:()()
Death from Phthisis, 1905					16
Death-rate from Phthisis, 1905					1.()+
Death-rate from Filth Diseases,	1904				().7
Death-rate from Filth Diseases,	1905				():4
1 Death to every 87 of the Pop					
Number of Births registered du					380
Birth-rate per 1000, 1904					3
•			1	Males	
Number of Births registered du	iring	1905—		Female	
Birth-rate per 1000, 1905				· · · · · · · · · · · · · · · · · · ·	28.0
Males registered 1904 196;				Total :	
Males registered 1905 215;					
Increase of Births 1905 over 19		ares .			6+
Excess of Births over Deaths, 1			• • •		2(10)
Excess of Births over Deaths, 1					260
Natural increase of Population	* *		* * *		260

11

lable of Vilal Statistics for 10 Years.

1905 1-10 1907 1-10	?: ?:1	10:5 13:0 11:9 11:8 12:7 11 10 11:2 11:0 11:4 11:5	£	P. C.	united to the second of the se	0.7	17.1
To the second se	₹ (1)	=		7	1:01		4 de 1
=	5		0.3 1.0 1	162 123	=	-	
1896 1897 1898 1899 1900 1904 1902 1903 1904	30.6 31·1 28·8 25·9 29·5 26·9 28·07 26·08 25 8	71			-	0.5 0.1 0.2	
1303	5.50		÷:	192 125	1.1 0 6 0.7		Death rate from Provided Provided Order 1990
E	26.9		9 0	35	· .	0.3 0.5	Peatl 1
1900	29%	13.7	<u>:</u> :0	162	0.8 1.5	e. 0	Ξ.
<u>\$</u>	25.9	Ξ x	0.5 2.0 1.8 1.0 0.5 0.6 0.3	<u>%</u>		## C	Death-rate from Filth Discusses. 1904 1·5
<u>x</u> <u>x</u>	ž Ž	-	$\frac{1}{x}$	177 131	1.2	€:0 £:0	eath-E Filth I 1904
7.	31.1	13.0	9.71	177	?1	1:5	<u> </u>
÷	9.0:	::0	10	<u> </u>		+ 0	
	:		:	100 Births	the Population	per 1600 of Population = 0.4	Zymotic Death- rate, 1904 0-5 1905 0-9
71. VR	Birth rate per 1000 of the Population	Total because deper 1000 of the Population	Death rate ir a 7 principal Zymotic Diseases	Rate of 10therts Mortality per 100 F	Finitesis per 1000 of the Population.	n I an Diseases per 10	Birth rate.
	=						

Births Registered-Birth-rate.

The number of births registered during the year was 114; of these 215 were males and 229 females, against 380 in 1904, shewing an increase since last year of 64, giving a birth-rate of 28.9 per 1000 against 25.8 last year. There is a distinct increase in the birth-rate this year, still it is much below the average of England and Wales. Legislation is still defective in the registration of still-born children, of which we have little or no account. All children born, whether still-born or not, ought to be registered under certificate of medical men, especially since the introduction of the Midwife's Act, who now attend to a large number of the working population. There were only 16 deaths registered as premature births: this gives no idea of the number of premature births during the year. The registration of deaths, as at present required by law, is most unsatisfactory and requires further legislation. It is now open to a great many irregularities, especially with regard to the insurance of young children. The birth-rate of a manufacturing town is of great importance, as there appears to be an inheritance of skill amongst the workers, whose children succeed their parents in the same trade are much more adapted by nature to skilfully work in their parents trade than labour introduced from outside sources; so that an increasing birth-rate of healthy children is essential to the progress of a manufacturing town.

Mortality Death-rate.

The number of deaths registered during the year was 175 against 171 last year, giving a death-rate of 11.4. Although the population increases rapidly, yet the number of deaths still keeps low, and the death-rate per 1000 is one of the lowest in the whole county. Of those deaths nearly one-half occurred under five years of age, 55 occurred under one year

of age, giving an Infantile Mortality of 123 per 1000 of the population. Such a large number of deaths at this age is a great waste of life, as a great many are preventible. In some towns there is a committee of lady visitors who divide the district among themselves and visit the homes of young parents, giving instruction on the feeding and management of infants. I should like to see such a committee started here. It would be of the greatest service; a large number of young mothers in this Town work in factories up to the time that they get married, quite unacquainted with the duties and obligations of their new condition: not being accustomed to help their mothers at home in the rearing of the younger members of the family are quite lost when they have a family of their own. Improper feeding of the children contributes greatly to so large a death-roll among infants; to those mothers such a visiting committee would be of the greatest service and the means of saving many valuable lives that die young.

The following are the causes of death:— Measles, 4; Scarlet Fever, 2; Whooping Cough, 2; Diphtheria, 7; Croup, 2; Diarrhæa, 7; Enteritis, 6; Phthisis, 16; Cancer, 8; Bronchitis, 15; Pneumonia, 5; Premature Birth, 16; Heart Disease, 18; Suicides, 3; Δpoplexy, 5; Convulsions, 10; all other causes, 40; Total, 175.

There were 4 deaths from Measles. During the months of June and July there were a great number of cases of Measles; it is not possible to give the correct number, but from information I received there must be from 150 to 200 cases; generally slight and spreading rapidly amongst the infant schools. Having occurred in summer time the death-rate from Measles was very low, not being complicated by Brouchitis or Pneumonia.

There were only 2 deaths from Scarlet Fever ont of 182 cases reported. They were chiefly slight cases.

There were 7 deaths from Diphtheria out of 46 cases notified. The death-rate in this disease was much higher than in Scarlet Fever, some of the cases being very severe.

There were only 7 deaths from Diarrhæa, which shows a great improvement, and none of them under 12 months of age.

There were 6 deaths from Enteritis all under 1 year of age, probably due to improper feeding.

PHTHISIS.—There were 18 deaths from Tubercular Diseases. Our district has more Tubercular Disease than any similar town in Derbyshire. This year 600 cards with printed notices were hung up in all the factories and workshops in the district, the elementary schools, and public houses, calling attention to the danger of spreading Phthisis through spitting on the floors and staircases of factories and workshops, and the pavement in the streets. The head teachers of the schools were instructed to call the attention of children to the danger of spitting as a means of spreading Consumption.

There were no deaths from diseases of the Respiratory Organs. Cough and Cold, Bronchitis, and Pneumonia are very common in winter time. People working in heated factories soon catch cold when coming out into the cold air again. The working hours here are very early, four o'clock, the coldest air of the day.

There were only 16 deaths registered from Premature Birth. This does not in any way give the number of deaths from Premature Births, and there must be many more that are not registered. Legislation is badly needed to regulate the registration of all deaths from Premature Birth and their cause.

Infantile Mortality.

There were 55 deaths under 1 year of age, and 27 under 5 years, giving in all 82 deaths under 5 years of age. Nearly half the total deaths registered were under 5 years of age giving 123 per 1000 of the births against 1973 per 1000 in 1904, showing a very great improvement in the Infant Mortality rate. That the Infantile Mortality is greatly influenced by dieting and clothing and local surroundings there is no doubt. Improper feeding and clothing are largely responsible for a great number of the deaths from Diarrhæa and Wasting Diseases.

The following table shows the cause of death in children under five years of age: --

Measles. Scarlet Fever. Whooping Cough.	Diphtheria.	Diarrhea. Enteritis.	Phthisis. Bronchitis.	Pnemnonia.	Heart Disease. Tabes Mesenterica	Ision rer C	Total.
4 2 2	5 2	7 - 6	2 11	2 16	1 2	10 10	82

The following table shows the causes of Infants' deaths during 1905:—

Wheoping Congh.	Darrhoa.	Enteritis.	Bronchitis.	Pneumonia.	Premature Birth.	Heart Discuses.	Tabes Mesenterica.	Convulsions.	All other causes.	[l-14]
2	6	5	7	1	16	1	2	7	8	55

There were 5 inquests held during the year:—1 Hanging, 1 Suffocated, 1 Drowning, 1 Abscess on Brain, 1 Poisoning, (three suicides).

Other influences besides Infectious Diseases which affect the Public Health and are capable of Removal or Mitigation.

Amongst those I place in the front rank, Poverty, as one of the principal factors in producing physical deterioration of the race. If a child has not plenty of good food to eat and properly clothed he does not grow: he becomes stunted, nature instinctively dwarfs him in order to save his life. His mind is also stunted. If a man has not enough to eat he cannot work; to save his life he avoids work, as he cannot work and starve at the same time. If a woman is badly fed she produces delicate offspring, which, owing to her poverty, gets no chance to recover after birth. The influence of poverty is specially manifested in two diseases—Phthisis, which kills in England and Wales over 40,000 persons, and Diarrhaa. which kills nearly 14,000. Although Phthisis attacks people in all stations in life, the greatest prevalence is amongst the very poorest. The conditions which predispose to Phthisis are damp, dark, dirty, over-crowded houses and drink, all connected with poverty. Poverty not only causes Phthisis, but it is one of the chief causes in spreading it. If Phthisis breaks out in a crowded and poor family, where they cannot protect themselves, other members of the family are almost sure to get it sooner or later. Drink, also, is a fruitful cause of poverty and want, and deserves the most earnest attention of all guardians of public health.

The influence of poverty in Diarrheea is not so apparent as it is in Phthisis. In hot and dry summers infants are dying

by hundreds in the large towns through improper feeding. Unwholesome milk is generally considered the principal cause, but as man children die from want of milk as from impine milk, this is where poverty comes in a a principal cause. What happ is amongst the poor? The mother, half-trivial hers II, cannot produce milk for her infant: sufficient cause is not left fafter paying rent, rates, and drink to buy fresh milk for the child. She is obliged to resort to the purchase of cheap food, with the result that the child dies, and death is ascribed to some other cause, while poverty and the resulting want of proper nourishment is the direct cause of a number of the deaths of these poor starved infants.

What is the use of supplying clean milk and healthy food to people when the milk is put into dirty vessels? What is the use of supplying sterilised milk to people who cannot afford to buy it? The whole responsibility for the excessive mortality of infants must not be left to the sanitary officials for, no matter how perfect the sanitation of a place may be, until other causative factors are removed there will always be this excessive mortality, and we must therefore call the attention of social reformers to this problem of poverty.

The Effects of the abuse of Alcohol on Public Health.

We all know that the number of deaths registered as occurring through alcohol give no idea of the correct number which are directly caused by the abuse of strong drink, and, even if the correct number were found, it would not convey the abuse of significant of the public health by the abuse of the potent accessof powerty and all as alcoholic equences. It has also a great influence on Infantile Mortality. Children born of alcoholic parents are mentally

and physically enfeebled, and unfitted for the struggle of life, less able to resist disease, are the first victims of poverty. A great number of children born of alcoholic parents soon fall victims to Bronchitis, Convulsions, Diarrhoea, and Accidents, which are really due to the carelessness on the part of parents that are habitually drunk. How many premature births are due to alcoholic excess? Its effects as a cause of insanity amongst adults: in fact no time of life is free from its lethal influence. Here, again, as a cause of poverty, much of this evil must be placed in the hands of the social reformer. There is no doubt that it is a most potent agent of physical deterioration, which leads to degenerating changes in all the organs of the body, ending in mental and physical disease. The clergy of all denominations have a grand opportunity of helping to remedy this dread disease. Some diseases are preventible, and this is one, but not exclusively by the sanitary authority. In many diseases the moral and social factor are equally important; in other words their prevention is as much the concern of the social reformer as of the sanitary authority, and any measures adopted for diminishing the loss of life, without taking in this aspect of the question, will only be partially successful. All these problems have relation to schools and school children, and it is here that the greatest results must be looked for in the future in improvement in the public health. To commence with the parents is commencing at the wrong end. The mischief is theu done. It is difficult to root out old habits and fixed ideas once contracted. much easier to teach young children habits of decency. temperance, cleanliness, and the simple laws of health, than to correct these faults in grown up people. To the schools, thereforc, you must look for improvement in all social evils. Girls should be taught what are the best and most economic foods and clothing to buy and how to cook. It very often happens that those who earn the least wages spend their money to the

best advantage. Perhaps if the loss of life was represented by a money value the question would receive more attention.

A strong working man should have a working life of 40 years. His average weekly wage may be put down at $\mathcal{L}1$, which represents the value of the work done by him. His producing value to the State would be about $\mathcal{L}2000$. Therefore, this large sum is lost to the State for every male child which loses its life from what are known as preventible diseases.

Senile Mortality.

Of the 175 deaths registered there were 35 over 65 years of age against 29 last year.

The following table shows the causes of death over 65:—



Zymotic Mortality.

Included in this class are the seven principal Zymotic Diseases Small-pox, Measles, Scarlet Fever, Diphtheon, Enteric, Whooping Cough, and Diarrhea - there were 22.

The following table shows the causes of death: -

								1
Small-pox.	Measles,	Scarlet Fever.	Whooping Cough.	Diphtheria.	Diarrhœa.	Enteric.	Total.	Zymotic Rate,
()	1	2	2	7	7	0	22	0.3

The following table shows the deaths from the seven principal Zymotic Diseases for the last ten years:—

Disease	8.	1	896	1897	1898	1899	1900	1901	$190\bar{2}$	1903	1904	190:
Small-pox			()	()	0	()	()	()	()	()	()	()
Measles			1	()	3	0	2	()	()	()	1	4
Scarlet Fever			()	-()	4	0	1	()	()	2	1	2
Diphtheria			()	3	3	3	()	()	1	1	3	. 7
Whooping Congl.	١		0	3	0	3	()	1	1	0	- 0	2
Enteric Fever			3	4	()	0	3	•)	2	0	1	0
Diarrhosa			1	14	7	-4	1	5	1	2	9	7
Total	4 4		õ	24	17	10	7	8	5	5	15	22

Average for the last ten years—11.8.

Infectious Diseases notified and the means taken to prevent their spread.

During the year there were 280 cases of Infectious Diseases notified to the Council against 177 last year, and 103 the year before. The following were the cases notified Scarlet Fever, 182: Diphtheria, 45: Croup, 6: Erysipelas, 19: Varicella, 27: and about 150 cases of Measles that were not

notified, making a total of £29 cases in all. There were a larger number of Infectious Diseases notified this year than there has been for the last 16 years, chiefly Scarlet Feyer and Diphtheria. The first cas s of Scarlet Feyer and Diphtheria were notified on the 1st January. They continued steadily increasing every month throughout the whole year without intermission, in fact the town has not been free from Scarlet Feyer for one week during the whole year.

The following table shows the notifications during the year:—

Disease.	Jan,	Feb Meh	Apl	Мау	Jne. Jly.	Aug Sep.	Oet. Nov Dec	Total.
Scarlet Fever	ā	6 10	Ĝ	.1	11 16	27 26	33 + 26 12	182
Diphtheria	1	5 5	3	;)	õ <u></u>	3 , 2	2 4 5	15

Out of the 182 cases of Scarlet Fever 45 were sent to the Draycott Hospital, and 6 cases of Diphtheria out of 45, making a total of 51 at three guineas each, costing £160-13s, together with Doctors' Fees. I consider it a very expensive way of dealing with Scarlet Fever, and a failure, as it does not carry out the intention of an infectious hospital as a means of checking the spread of infectious Diseases. It would be much better if the money was spent in trying to prevent the occurrence of Infectious Disease in the first instance than to be spending it on treating them ofterwards.

The fufcctions Diseases rate for the year was 1711.

The following table shows the Infectious Diseases notified during the year 1905:

		Cases	notifie	ed in wl	role dis	trict.	No cases
Notifiable Disease.	At all		removed to				
	Ages.	Under 1	1-5.	5-15.	15-25.	25-65	65 and Hospital upwds
Small-pox Diphtheria	40		7	22	6	5	6
Membranous Croup Erysipelas		1	6		-4	12	
Scarlet Fever Enteric Fever		3	36	102	34	7	45
Chicken-pox Measles	$\begin{array}{c} 24 \\ 150 \end{array}$	1	11	12			
Total	419	5	60	136	44	24	51

The following table shows the number of Infectious Diseases notified during the last ten years:--

Notifiable Disea	se.	1896	1897	1898	1899	1900	1901	1902	1903	1904	190
Small-pox		 0	0	0	0	0	0	2	19	0	0
Diphtheria		 2	14	12	-6	1	1	4	- 5	29	4.5
Membranous Croup		 2	()	5	- 5	1	1	1	2	0	- 6
Ervsipelas		 19	21	21	10	()	24	17	13	15	-17
Enteric Fever		 21	44	16	5	()	15	.1	1	1	0
Pnerperal Fever		 1	()	2	1	()	()	0	1	()	()
Whooping Cough		 ()	()	0	0	()	()	()	()	1	0
Measles		 0	0	()	()	0	()	()	0	-0	150
Scarlet Fever	, .	 25	39	80	16	34	67	- 33	36	69	182
Total		 70	118		43	54	108	61	77	115	400

Average for ten years—117.0.

The following measures have been adopted by the District Council to check the spread of Infectious Diseases:

- 1. Infectious Diseases Prevention Act. 1890, is adopted.
- 11. Public Health Acts Amendment Act, 1896.
- III. -Infectious Diseases Prevention Act, 1889.
- IV. Notification sent to Elementary and Sunday Schools.
- V. Verbal and printed instructions sent to every infected house.
- VI. All houses are disinfected by the Sanitary Authority.
- VII.—Infectious Hospital at Draycott for Scarlet Fever and Diphtheria.
- VIII.—Small-pox Hospital crected by Council.
 - IX. In future, when Free Library is opened, a list of infected houses will be sent to the Librarian, so that library books will not be lent to infected houses.

Action taken with regard to Infectious Diseases.

SMALL-POX.—There was no case of Small-pox notified during the year.

ENTERIC FEVER. There was no case of Enteric Fever notified. This is the first year for 20 years that the Town has been entirely free from Enteric Fever. There was only one case last year, and one the year before. In 1897 there were 44 cases. The number of cases have gradually diminished during the last 10 years.

SCARLET FEVER. There were 182 cases notified, spread all over the District. 45 of these were removed to Draycott Hospital; the remainder were isolated at home and confined to their rooms for six weeks. Disinfectants were regularly sent by the Council to each house. When the

Doctor in attendance certified they were free from infection the rooms were disinfected, and certificates granted to the children to return to school again. The great majority of the cases were spread through school infection—principally through the Infants' Schools. There were only two deaths; most cases were slight in character.

DIPHTHERIA. There were 45 cases of Diphtheria, with 7 deaths. Antitoxin is now provided by the Council free of expense, so that all persons shall have the opportunity of being treated by this valuable remedy. This is the largest number of cases of Diphtheria for the last 10 years. In some cases sanitary defects were found, but school infection was the principal cause of the spread; none could be traced to milk or other food infection.

ERYSIPELAS. -There were 17 cases of Trysipelas, mostly facial Erysipelas and local injuries.

PUERPERAL FEVER.—There was no case of Puerperal Fever notified.

VARICELLA.—There were 24 cases of Varicella, all amongst school children. The same measures were adopted with these cases as with other Infectious Diseases—children were kept away from school.

MEASLES. There was rather a large outbreak of Measles in July and August. I estimated the number to be about 150. The schools were ordered to be closed, as it was close to the helidays, so that they would be a clear so weeks closed and give an opportunity for all cases to get recovered before the schools opened again. Measures spread very rapidly in schools, as the symptoms are rather indefinite in the early stages.

Notes upon the Sanitary Work of the Year.

It will be seen from the Report of the Similary In pector that a considerable amount of work has been done during the year. I would suggest that all drains for new buildings, as well as drains reconstructed, hould stand the water test. If there is a lack of this test many drains passed as sound will prove in a short time to be faulty and a great source of danger to the public health, as our District is most difficult to drain properly, there being very little fall. The health of every town depends largely on its Water Supply, its Housing, and its Drainage. The fact that we have no Enteric Fever this year I attribute to the improved condition of drainage; a number of old and defective drains have been taken up and relaid. Sewers constantly and regularly flushed is more necessary now than ever, as the number of w.e's, used in the District are rapidly increasing every vear.

General Sanitation.

New Houses erected	, 1903				390
New Houses creeted	, 1904				<u></u>
New Houses erected	. 1905				235
Wells Closed and T	own Water	supp	lied		Nil

Plans of factories and Workshops Approved during the Year 1905.

- 1. Draughting Room, Union Street.
- 2. Factory, High Street.
- .. Viditions to Oakle i Mills.
- 1. Bricknock's Factory, Milner Road.
- 5. Work Room, Harrington Factory.
- 6. Engineers' Workshop, Sawley Road.
- 7. Factory, Milner Road.

- 8. Fitting Shop, Gas Company.
- 9. Work Room, Harrington Factory.
- 10. Bake-house, corner of Curzon St. and Canal St.
- 11. Number of w.c's. erected—300.

CONVERSION OF PRIVY MIDDENS. -During the year particular attention has been directed towards the total abolition of privy middens from the District, and it is a source of satisfaction to record that during the year 43 of these pits have been filled up and meter water closets or pans for weekly collection adopted. It is a matter of regret, however, that the conversion of these privy middens should increase the number of pans, which are not a desirable substitute. There now remains only 40 privy middens in the District, 18 of which are in isolated places, whilst a few years ago there were several hundreds. This is a most satisfactory sanitary improvement in the Town, as they have always been a source of danger to the public health, a nuisance to clean out, and a permanent danger while full. All efforts should be used to complete the abolition of the whole lot. remain a danger while one is left in the District.

The following is a list of improvements effected, in many cases new drainage, paving, and other defective sanitary conditions have been remedied:—

- 21 Pits into 36 Pans
- 22 Pits into 53 w.e's.
 - 3 Pans to 4 w.c's.

Affecting the Sanitary Condition of 93 Houses.

In all new houses w.e's, are adopted.

EXCREMENT AND SEWAGE DISPOSAL. Public Scavenging is adopted throughout the District, and is done by the Council's men weekly. Refuse is conveyed

to the Sewage Farm and burnt. A Refuse Destructor will soon be required to deal with the increasing quantity of house refuse.

The following are Registered in the District:

Buildings ai	nd Trades.	No. on Regis- ter.	Remarks on Condition.
1. Workshops		60	Clean and well ventilated.
 Common Lod Slaughter-hot 	() ()	13	Badly kept. All required lime-washing.
(Dairies	iscs		An required time washing.
1. Cowsheds		8	Clean and well kept, except one
(Milkshops			
5. Bakehouses		9	Clean; required lime-washing.
Tota	1	91	

BYE-LAWS.

Bye-laws belonging the following matters have been adopted:

- 1. New Streets and Buildings.
- 2. Common Lodging-houses.
- 3. Scavenging.
- 1. Measures.
- 5. Markets.
- 6. Slaughter-houses.
- 7. Public Baths.
- 8. Houses Let in Lodgings.
- 9. Cometeries.
- 10. Mortuaries.
- 11. Offensive Trades.
- 12. Open Space.
- 13. Vans and Tents.

The following Dairies and Milk-shops are Registered:

No.	Darry.	Owner.	Nature of Employment.	Remarks.
1	20. College St.	Marshall, John	Milk Purveyor	Clean and well kept
2 3	Nottin, Road	Adams, George	7.7	4.9
1	6. Claye Street Wellington St.	Thorpe, Benjam Hallam, Alfred	11	1 11
.)	Weinington St. Main Street	Co-op. Society	11	1 2
6	22. Station Road	Barker, Robert	11	9 9
7	12. Station Road	Needham, Eb.	**	
8	80. Derby Road	Hutchings, M.	**	
()	Wellington St.	Bates, T.	• •	11

I have visited all these shops were milk is kept, and found them clean and suitable places to keep and store milk.

BAKFHOUSES.—There are 9 Bakehouses in the District. They are inspected twice a year, are fairly clean, and all required lime-washing. Notices were served on them for lime-washing and all complied with the notices. There are no underground Bakehouses, nor have they any drains open into them. There are no sleeping places in connection with any of the Bakehouses.

SLAUGHTER-HOUSES.—There are 13 registered. I visited them twice in the year and found them fairly clean except two - one in Nelson Street, which was very dirty and heaps of refuse all over the yard and dead rats. Notices were served on the owners and occupiers to remedy the nuisance arising from them. They were visited again to see if the notices were complied with, when they were found much improved. Nothing is done in these slaughter-houses except killing. No food is prepared in them. This is an important matter, and a safe-guard to the public against Bacterial Poisoning.

COMMON LODGING-HOUSES.--There is only one on the Register. It is not by any means a model lodging-house. The arrangements for the separation of the sexes is not sufficient; neither is there sufficient accommodation for washing. It is registered for 18 beds, but is often over-erowded. It would pay the Council to build one of their own.

HOUSE ACCOMMODATION.—Workmen's cottages here are of a very superior class. They are clean and well-built; wide streets and plenty of air-space, with paved back yards. The rents are rather high. New streets are being built every year, so there is little over-crowding anywhere. Still there is a great want of a cottage at a much cheaper rent. Most cottages let at 5/6 and 6/6 per week, which is much too high a rate for working people, and deprives families of many things which would be beneficial to them in other respects if the money could be spared for more and better food and clothing so necessary to young children. All the new cottages are supplied with Town Water, and most of them with electric light. The old middens are abolished from all new houses and dust pans supplied instead, which are emptied weekly by the Council's men.

SEWERAGE AND DRAINAGE.—More filter beds are required at the Sewage Farm for the increasing quantity of sewage since the introduction of w.c's. Some alterations have been made at the precipitating tanks; a further enlargement would make a great improvement. The old tanks are too far away from the well. By enlarging the one close to the engine-house there would be a great saving of labour and expense, and a better and cleaner effluent would result, and the sewage could easily gravitate back into the sludge well and save pumping. There is danger of the filter beds

being interfered with by floods from the backing-up of the brook. The lower level of the Sewage Farm soon gets covered with water in a flood, and will soon necessitate making other arrangements. The heap of refuse down there is getting a very large size, and will soon require a Destructor.

EXCREMENT DISPOSAL.—The water carriage system is now generally in vogue and superseding the old pail system, which was getting very difficult to deal with, besides being very expensive, and objectionable in many ways.

WATER SUPPLY.—Weekly pumping from the well:

1903 ... 2,400,000 gals.

1904 ... 2,500,000 ,,

1905 ... 2,600,000 ,,

Owing to the great scarcity of rain for the last two years precautions had to be taken to safeguard a sufficient supply of water for all purposes. It was cut off at night some time back to prevent all waste and save the well. Recently there has been a good deal of rain, and it is to be hoped the water will soon be turned on again. The quality of the water still remains very pure. The following is an analysis recently made by Prof. Franklind:—

"Oct. 6th.—Herewith I enclose the result of analysis of the sample of water sent by you from Long Eaton on the 30th ult.: This water is clear, palatable, and of an extremely high degree of organic purity.—It is also free from ammonia, and contains a negligible proportion of nitrates.—The water is of excellent quality for drinking, but unsuitable, in consequence of its hardness, for washing and steam purposes." This analysis is most satisfactory, and helps to explain the fact that our Town is so free from Enteric Fever.

OFFENSIVE TRADES. No complaints were made during the year of any nuisance arising from Offensive Trades of any kind. The market stalls are regularly visited on market nights; meat and fish and all kinds of foods exposed for sale are inspected. I did not find any bad food of any kind during the year. It is a long time since we had occasion to prosecute for bad food. There is no meat sold now in the market except that killed in the town. There used to be a lot of meat brought from other places, but none lately.

ICE-CREAM SHOPS.—During the hot weather the premises of ice-cream vendors were visited for the purpose of ascertaining the conditions under which that article was prepared, and in all cases the persons engaged were found to be taking reasonable precautions to secure cleanliness in its manufacture.

FISHMONGERS' SHOPS.—In consequence of complaints of a nuisance from the accumulation of empty boxes and other refuse at fishmongers, inspections were made during the summer months, and only in one case was there found any delay in the removing of offal. There is little inconvenience caused from this trade, which might be a source of nuisance from decomposing fish and other accumulations.

Factory and Workshop Act, 1901.

Report of the Medical Officer of Health on the administration of the Act in the Long Katon Urban Sanitary District for the Year 1905.

Factories, Workshops, Laundries, and Home-work. Classification and Inspection.

The number of premises registered under the Factory

and Workshop Act has been increased to 61, and are as follows: -

		Work	done.					No. on Register.
Dressmaking								8
Lace Mending								4
Plumbing								i
Boot Repairing								5
Tailoring								6
Millinery								6
Blacksmiths								3
Bakehouses								9
Joinery								3
Carriage Building								1
Machinists								4
Masons								2
Wheelwright								1
Card Punching								2
Cycle Repairing	• •	• •	• •	• •	• •	• •	• •	3
Total				• •				61

The total number of Factories in the District is 30.

There were 3 New Factories erected this year in the District, and 2 just outside, at New Sawley.

All these Workshops and Workplaces have been inspected. They were found clean and healthy, and in every respect complied with the Regulations. A few required lime-washing, and a few new ones required an Abstract. The new shops were measured, and the number of persons allowed to work written on the Abstract.

There were no dirty or dangerous work carried on in these places. There were 16 visits made to Factories; 98 to Workshops; 6 to Workplaces; and 67 to Home-workers houses. In one Outworker's home Diphtheria was in the house, and the lace found there was fumigated and returned to the owner, notice being served not to supply any more till the house was free from infection.

Total Number of Visits made ... 187.

Homework (Section 107 to 115).

The total number of lists of Outworkers sent in was 52 and 64. Some difficulty was experienced in getting those lists in, so 1 sent notice to all the lace manufacturers in the district, and, after a while, the whole lists were sent in. A Register is kept of the names and addresses of Outworkers, and the houses watched for the occurrence of Infectious Disease there. Most of the Outwork done is Lace Mending and Tailoring. Notices were sent to the Manufacturing Houses of Nottingham and Derby of Outworkers here from their Districts.

Sanitation.

CLEANLINESS. General condition of all the shops is good.

AIR-SPACE.— General condition good; no over-crowding. In some cases windows were found closed and not usually opened.

VENTILATION. Generally good. Ventilation effected by windows, doors, and fire-places.

A. B. CHAMBERS, M.D.,

Medical Officer of Health.

APPENDIX.

- the whole District during 1905 and previous years.
- 2. Table III. Local Government Board—Cases of Infectious Diseases reported during 1905.
- 3.—Table IV. Local Government Board—Causes of, and ages at, Death during 1905.
- 4. -Table V. Local Government Board Infant Mortality during 1905, deaths from stated causes in weeks and months under one year of age.
- 5. Home Office Table -Factory and Workshops Act, 1901.

Table 1. Vital Statistics of whole District during 1905 and previous Years.

			1	Total	Total Deaths Registered in the District.	ıs Registered District.	in the	snob	pala)	i pnos. pnos.	Net Dea	Net Deaths at all
) cal	Population estimated to middle			obur) of	Under Lycar of age.	. At al	At all ages.	sdinott mittenl fateib	12115	д исра	the District	stirlet
		Number	Rate.	Numbe	Rane Number Births	Number	Rate.	Public	เนอเบรอม	>1[13:0] 5:012[**03 1041[>0] 9:01	Number	Bat
1	61	**	**	10	6	2	X	6	=		12	13
1895	11.500	200	20 30	00	103.8	122	11.1				66	111.1
1830	11:25	= :::	30.0	5.50	112.7	117	10.4				117	10.1
1201	11.735	366	31.18	(:)	177.5	153	13.2				153	13.2
7.0	12.400	 	28.90	17	131.2	172	12.4		:			12.1
1833	15.7%	\$7 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	29-60	10	138.5	151	12.5				1.71	12.2
1900	13,050	375	28.73	57	152	162	12.7				162	12.7
1901	13,130	351	26-96	3	192	150	11.4		•		150	11.4
1905	13,500	S X X	28-07	- 40	126.5	141	10-4	•		:	. 141	10.4
1903	15,100	107	26.81	100 X.C	142.5	170	11.2				170	11.2
1904	14.640	30 X X	25.8	13	197.3	171	11.6			:	171	11.6
Averages for												
vears 1895,1904	12.811	370	28.74 47.85	54	147.4	148	11.6		:	:	7. X.	11.6
1905	15,300	111	6.85	55	123	175	11.4		:	:	175	11.1
	Area of District in acres (exclusive of area, covered by water)	riet in a			of arroy, ec	vered by	Water			660 6		
	307.4	1000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 1 7 137 7	אד נפר כנפ כנ	2017171	110000	•				

Number of inhabited houses, 2,589, Average number of persons per house, 5.5 (at census of 1901). Total population at all ages, 13.045.

TABLE III. - Cases of Infectious Disease notified during the Year 1905.

	Cases notified in whole district.								
Notifiable Disease.	At all		removed to						
	Ages.	Under 1	1-5.	5-15.	15-25.	25-65.	65 and upwds	Hospita	
Small-pox Cholera	40 6 17 175	1 3	7 6 36	22 95	6 4 34	5 12 7		6 45	
Varicella	24	1	11	12					
Totals	262	5	60	129	44	24		51	

Table IV.

Causes of, and ages at, Death during Year 1905.

(anses of D	eath	-	.VII REFT.	Under Lyear.	Tand under 5.	5 and under 15	15 and und r 25.	25 and under 65.	(i) and upwards.	beaths in bearings at all are Deaths in Public Entiritions
Measles Scarlet Fever Whooping-cough Diphtheria and men Croup Typhus Fever - Enteric	abranous	croup	1 2 7 2	2	4 2 5 2	2				
Plague Diarrho a Enteritis Puerperal Fever Erysipelas			7 6	6	1 1					
Other Tubercular I Cancer, Malignant Bronchitis Pneumonia	Diseases Disease	 	16 2 8 15 5	7	1 1 4 1	1	1	7 3 1	1 2 2	Nil. Nil.
Organs Alcoholism Cirrhosis of Liver Venereal Diseases Premature Birth Diseases & accident	 .s of partu	rition		16				2	2	
Heart Diseases Accidents Suicides Apoplexy Tabes Mesenterica Convulsions All other causes			18 3 5 2 10 40	2148	:: 2	* }	1	9 3 5	7	
All causes			175	5.5	27	7	χ.	1:3	3.5	

		38				
		Wasting Diseases Tuberculous Diseases	Diarrhœal Diseases	Common Infectious Deseases	All Causes.	
	Erysphelas	Injury at Birth Want of Breast-milk Atrophy, Debility, Marasmus Tuberculous Peritonitis: Tuberculous Mesenterica Other Tuberculous Diseases	erie	Small-pox	Certified Uncertified	Canse of Death.
16	<u> </u>		14			Under 1 Wk.
	ಲು		Н		15-	1-2 Weeks.
2	П		₽		to	2-3 Weeks.
ω .	Н				ಲು	3-4 Weeks.
25	⊢ ∪₁		15 1		23	Total under 1 Month.
_	—					1-2 Months.
	р г	H			55	2-3 Months.
<u></u>	–				-	3-4 Months.
ن	ιψ				ಲು	4-5 Months.
	10 10		(¢		<u>x</u>	5-6 Months.
+	⊢ ⊢				4	6-7 Months.
					-	7-8 Months.
ري			⊢ ⊢		13	8-9 Months.
ಲು	-		<u> </u>		<u></u> ω	9-10 Months
-			1			10-11 Mths.
						11-12 Mths.
25					(a) (b)	Total Deaths under One Year.

Factories, Workshops, Laundries, Workplaces and Homework.

1. INSPECTION. (Including inspections made by Sanitary Inspectors or Inspectors of Nuisances).

		Number of	
Premises.	Inspections.	Written Notices.	Prosecutions
Factories (including Factory Laundries)	16	4	
Workshops Workshop	98		
Workplaces	6		
Homeworkers' Premises	64		
Total	184	-4	

2.—DEFECTS FOUND.

	Numl	No. of							
F	Found	Reme died.	Refrd. to H.M.I	Prose- cu- tions.					
Nuisances under the 1	'ublic	Health	Acts						
Want of cleanli	ness					Į.			
Want of ventilat	tion					1			
Overcrowding									
Want of drainag	e of fl	.00Ps							
Other unisances									
(4)	(ln	sufficie	ent			1	1		,
Sanitary Accommodation	Uı	ısnitab	le or I)efecti	ve				
1100///////////////////////////////////	(No	ot Sepa	rate fo	or Sexe	es	1			
Offences under the Fa	ctory e	ind Wo	rkshop	Act :-		1			
Illegal occupation									
Breach of Speci bakehouses	al Sai	nitary	require	ments	for	1	-1		
Failure as regar	ls list	s of ou	tworke	TS.		1.5	15		
Giving out work in premises	to be a which	lone (are (Unwl Infect	ioleson ted	ne	, I			
Allowing wearing ises infected	g appa by sc	rel to l arlet fe	e mad ver or	e in pr small _l	rem-				
Other offences									
T	otal					22	20	l	

3. OTHER MATTERS.

(lhss.	Number
Matters notified to H.M. Inspectors of Factories:	3
Failure to affix Abstract of the Factory and Workshop Act	f
Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory Act Notified by H.M. Inspectors Reports (of action taken) sent to H.M. Inspectors	
Other	1
Underground Bakehouses :	
Certificates granted during the year	
In use at the end of the year \dots \dots \dots \dots	
***	Number of
Homework: List of Outworkers:	Lists. Out- workers.
Lists received	52 64
Addresses of Ontworkers { Forwarded to other Authorities	4 3
Homework in unwholesome or infected premises : -	Wearing Other.
Notices prohibiting homework in unwholesome premises	
Cases of infectious desease notified in ho.neworkers premises	1
Orders prohibiting homework in infected premises	
Workshops on the Register at the end of the year	60
Important classes of workshop bakehouses, may be enumerated here.	
Total number of workshops on Register	60